

## CLAIMS

1. An arrangement for measuring material flow, particularly concentrate flow, in connection with a flotation cell, **characterized** in that said arrangement  
5 comprises an elongate sensor element (1) extending essentially over the whole transversal area of the material flow to be measured, and a measuring device (2) for detecting the position of the sensor element (1).
2. An arrangement according to claim 1, **characterized** in that the measuring  
10 device (2) is an angle transmitter.
3. An apparatus according to claim 1 or 2, **characterized** in that the sensor element (1) is attached to the horizontal axis (3) of the measuring device (2).
- 15 4. An apparatus according to any of the preceding claims 1 - 3, **characterized** in that the horizontal axis (3) of the measuring device (2) is positioned essentially transversally to the flowing direction of the material flow to be measured.
- 20 5. An apparatus according to any of the preceding claims 1 - 4, **characterized** in that the arrangement is connected to the control system (6) of the flotation cell.
6. An apparatus according to any of the preceding claims 1 - 5, **characterized**  
25 in that the arrangement comprises a display unit (7).
7. An apparatus according to any of the preceding claims 1 - 6, **characterized** in that the material flow to be measured is the material flow (13) flowing out of a flotation cell via a drain chute (8).

8. An apparatus according to any of the preceding claims 1 - 7, **characterized** in that in the sensor element (1), there is arranged a calibration means (4), such as a movable weight.

5 9. An apparatus according to any of the preceding claims 1 - 8, **characterized** in that the arrangement is provided in connection with the drain chute (8) of a flotation cell (11), preferably so that the sensor element (1) is at least partly placed in a collecting pipe (10).

<sup>10</sup> add  
a'

201610-62403660